

# JAVA.UTIL.ENUMSET CLASS

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## Introduction

The **java.util.EnumSet** class is a specialized Set implementation for use with enum types. Following are the important points about EnumSet:

- All of the elements in an enum set must come from a single enum type that is specified, explicitly or implicitly, when the set is created.
- Enum sets are represented internally as bit vectors.
- EnumSet is not synchronized. If multiple threads access an enum set concurrently, and at least one of the threads modifies the set, it should be synchronized externally.

## Class declaration

Following is the declaration for **java.util.EnumSet** class:

```
public abstract class EnumSet<E> extends Enum<E>>
    extends AbstractSet<E>
    implements Cloneable, Serializable
```

## Class methods

S.N.	Method & Description
1	<a href="#"><u>static &lt;E extends Enum&lt;E&gt;&gt; EnumSet&lt;E&gt; allOf(Class&lt;E&gt; elementType)</u></a> This method creates an enum set containing all of the elements in the specified element type.
2	<a href="#"><u>EnumSet&lt;E&gt; clone()</u></a> This method returns a copy of this set.
3	<a href="#"><u>static &lt;E extends Enum&lt;E&gt;&gt; EnumSet&lt;E&gt; complementOf(EnumSet&lt;E&gt; s)</u></a> This method creates an enum set with the same element type as the specified enum set, initially containing all the elements of this type that are not contained in the specified set.
4	<a href="#"><u>static &lt;E extends Enum&lt;E&gt;&gt; EnumSet&lt;E&gt; copyOf(Collection&lt;E&gt; c)</u></a> This method creates an enum set initialized from the specified collection.
5	<a href="#"><u>static &lt;E extends Enum&lt;E&gt;&gt; EnumSet&lt;E&gt; copyOf(EnumSet&lt;E&gt; s)</u></a> This method creates an enum set with the same element type as the specified enum set, initially containing the same elements (if any).
6	<a href="#"><u>static &lt;E extends Enum&lt;E&gt;&gt; EnumSet&lt;E&gt; noneOf(Class&lt;E&gt; elementType)</u></a> This method creates an empty enum set with the specified element type.
7	<a href="#"><u>static &lt;E extends Enum&lt;E&gt;&gt; EnumSet&lt;E&gt; of(E e)</u></a> This method creates an enum set initially containing the specified element.
8	<a href="#"><u>static &lt;E extends Enum&lt;E&gt;&gt; EnumSet&lt;E&gt; of(E first, E... rest)</u></a> This method creates an enum set initially containing the specified elements.

9	<a href="#"><u>static &lt;E extends Enum&lt;E&gt;&gt; EnumSet&lt;E&gt; of(E e1, E e2)</u></a> This method creates an enum set initially containing the specified elements.
10	<a href="#"><u>static &lt;E extends Enum&lt;E&gt;&gt; EnumSet&lt;E&gt; of(E e1, E e2, E e3)</u></a> This method creates an enum set initially containing the specified elements.
11	<a href="#"><u>static &lt;E extends Enum&lt;E&gt;&gt; EnumSet&lt;E&gt; of(E e1, E e2, E e3, E e4)</u></a> This method creates an enum set initially containing the specified elements.
12	<a href="#"><u>static &lt;E extends Enum&lt;E&gt;&gt; EnumSet&lt;E&gt; of(E e1, E e2, E e3, E e4, E e5)</u></a> This method creates an enum set initially containing the specified elements.
13	<a href="#"><u>static &lt;E extends Enum&lt;E&gt;&gt; EnumSet&lt;E&gt; range(E from, E to)</u></a> This method creates an enum set initially containing all of the elements in the range defined by the two specified endpoints.

## Methods inherited

This class inherits methods from the following classes:

- java.util.AbstractSet
- java.util.AbstractCollection
- java.util.Object
- java.util.Set